



Mutation	Exemplary Pool	3' blocking group	Oligo type (Arm)	Sequence (5'-3')	ϵ_{900} M ⁻¹ cm ⁻¹
2789+5G>A	1	none	invasive	TTTGGTTGCTGTGGCTCTCTGGAAAGTGAT (SEQ ID NO:1)	330800
2789+5G>A	1	hex	probe/DM	CGCCCGGAGGATATCCATGTCTCTATTGTG (SEQ ID NO:2)	306500
2789+5G>A	1	none	synthetic target	CTATCTACATAGCAATAGCAATATTCATCTCCAGGACGACACCAACCCAAA (SEQ ID NO:3)	667000
R1162X	1	none	invasive	GTTACCTCTGTGGCATGTCAATGAATTAAGACTCT (SEQ ID NO:4)	428000
R1162X	1	hex	probe/DM	CGCCCGGAGGAGCTCACAGTCGC (SEQ ID NO:5)	253000
R1162X	1	none	synthetic target	TCAGATGCGATCTGTGAGCTGAGCTTTAAGTCTCATGCAATGCCAACAGAGGTAAC (SEQ ID NO:6)	659000
R347P	4	none	invasive	CAGGGAATTTGCCGAGTGACCGCCATGT (SEQ ID NO:7)	306800
R347P	4	hex	probe/ER24	ACGACGCGGAGGCGAGCAACAATGCGAG (SEQ ID NO:8)	318200
R347P	4	none	synthetic target	CTCATCTGTCATCTGTGCCATGCGCGGTCACTCGGCAATTCCTGTGGG (SEQ ID NO:9)	488000
1898+1G>A	1	none	invasive	GACTCTCTTTTGATACCTGTAGTGTTAACAGAAAAAATAATTTGAAAGT (SEQ ID NO:10)	619000
1898+1G>A	1	hex	probe/DM	CGCCCGGAGGATATGCTCTTTGAATACCTACTAT (SEQ ID NO:11)	386500
1898+1G>A	1	none	synthetic target	ATAAGAGGATATCAAGAAACAATCTTCAAAATATCTTTCTGTGTTAAAAACATCTAGGTATCCAAAAGGAGAGTC (SEQ ID NO:12)	904800
2184delA	4	none	invasive	CGCCAAATCTCCAGTCTGTATTAAGAGATTTATTTTC (SEQ ID NO:13)	393000
2184delA	4	hex	probe/DM	CGCCCGGAGGCTTCTGTCGAGGAGACA (SEQ ID NO:14)	305200
del507	1	none	invasive	GCCTTCATGACCTGTGATCTATATTCATAGCAACACCAAT (SEQ ID NO:15)	509300
del507	1	hex	probe/DM	CGCCCGGAGGAGATATTTCTTTAACTGTGTGTC (SEQ ID NO:16)	345200
del507	1	none	synthetic target	GCCTTGGCAAGATTAAGAAATAATCTTTGCTGTCTTATGATGAATATAGATACAGAAAGCGTCATCAAAAGCATGCC (SEQ ID NO:17)	866800
G85E	4	hex	invasive	GCCCTTGGCGATGTTTTCTGGAGATTTATGTTCTATGT (SEQ ID NO:18)	409100
G85E	4	none	probe/ER24	ACGACGCGGAGGAATCTTTTATATTAAGGGTAAG (SEQ ID NO:19)	431700
G85E	4	none	synthetic target	AGATCTTACCCCTAAATATAAAGATTTATAGAACTATAATCTCCAGAAAAAATCTCCAGAAAAACATCGCCGAAGGGCATTAT (SEQ ID NO:20)	868300
R117H	3	none	invasive	AATCATAGCTCTATGACCGGATACAGGAGGAAT (SEQ ID NO:21)	443800
R117H	3	hex	probe/DM	CGCCCGGAGGACTCTATGCGGATTTATCT (SEQ ID NO:22)	304200
R117H	3	none	synthetic target	ATCTGATAGATTAATGCGGATAGAGTGTCTCTGTTATTCGCGGTGATACGGAAGCTATGATT (SEQ ID NO:23)	681700
R560T	1	none	invasive	CATGAATGACATTTACAGCAAAATGCTGTGAGCAACAATAATAGTTATTCAT (SEQ ID NO:24)	595000
R560T	1	hex	probe/ER24	ACGACGCGGAGGTTGCTAAAGAAATCTTGCT (SEQ ID NO:25)	378100
R560T	1	none	synthetic target	CAGGACGAGAATATCTTACGACGTGAATAGTAATATTTGGTCTAGCAAGCATTTGCTGTAATGTCAATCATGTATAAAA (SEQ ID NO:26)	945400
3120+1G>A	2	none	invasive	GCAATTTGGATGACCTTCTGCCCTTACCATATGACTCATCCAGT (SEQ ID NO:27)	496000
3120+1G>A	2	hex	probe/DM	CGCCCGGAGGATATTAATTAAGTAATAGTACCGTTAA (SEQ ID NO:28)	397500
3120+1G>A	2	none	synthetic target	AGACATCTATACGGTACTATTTTACATATCTGATGAAGTCAAAATATGTTGATATATC (SEQ ID NO:29)	984000
3659delC	2	none	invasive	GAGAGTTGGCATCTTGTGTGGTGGTGGT (SEQ ID NO:30)	372300
3659delC	2	hex	probe/DM	CGCCCGGAGGTTAGCTTCTGTGTTG (SEQ ID NO:31)	302800
3659delC	2	none	synthetic target	CATGCCAACAGAGGTAACTACAGTCAACCAACCAATACAGAAATGGCGCAACTCTC (SEQ ID NO:32)	679800
A455E	1	none	invasive	CTGTAGAGATATTAATTCAGATAGAAAGAGACAGTGTGGT (SEQ ID NO:33)	531000
A455E	1	hex	probe/ER24	ACGACGCGGAGGAGTGTGGATGCA (SEQ ID NO:34)	298100
A455E	1	none	synthetic target	CCAGTGTCCAGCAACTCCCAACCTGCTCTTCTTCTATCTTGAATTAATATCTTTCAGG (SEQ ID NO:35)	661000
1078delT	2	none	invasive	AGTGTAGGAGGAGACACATAAAACACCAT (SEQ ID NO:36)	413500
1078delT	2	hex	probe/DM	CGCCCGGAGGAGACCTGAGAGAGAGAA (SEQ ID NO:37)	355400
1078delT	2	none	synthetic target	AGCCTCTCTCTCAGGTTCTGTGGTGTGTTTATGCTGTCCCTATGCACT (SEQ ID NO:38)	533000
G551D	2	none	invasive	GCAGAGAACATATATGTTGTGGAGAGGTGGAAATCATCACTAGTGGAGT (SEQ ID NO:39)	628200
G551D	2	hex	probe/DM	CGCCCGGAGGATCAACGAGAAATTTCT (SEQ ID NO:40)	343800
G551D	2	none	synthetic target	CTTGCTAAAGAAATTTGCTGCTGATCTCCACTGATGATCCACCTTCTCCAGAACATATATGCTCTTCTGCAAACTT (SEQ ID NO:41)	883100
1148T	1	none	invasive	AAATCAACCTAAATAGTATCTCATCTGCACTGCAAT (SEQ ID NO:42)	432400
1148T	1	hex	probe/ER24	ACGACCGCGAGGTTGTATGAAGGCCAAA (SEQ ID NO:43)	350200
1148T	1	none	synthetic target	CCATTTGGCCTTCATCACTGGAATGCAGATGAGATGATGTTAGTTGATT (SEQ ID NO:44)	643100
N1303K	2	none	invasive	CGCATTTGTGATCCAGTGTGTCAGTGTGTCAGTGTGCAAT (SEQ ID NO:45)	414700
N1303K	2	hex	probe/DM	CGCCCGGAGGCTTTTCTAAATGTTCCAGAAAA (SEQ ID NO:46)	391200
N1303K	2	none	synthetic target	ATTTATTTTGTGGAACATTTAGAAATTTGGATCCCTATGAACAGTGGAGTGATCAAGAAATATGGAAG (SEQ ID NO:47)	867100
711+1G>T	2	none	invasive	GCCTTCCAGTTGTATTAATTTACAAATAGTGCCTTAAAGATTAATCAATAGGTACAT (SEQ ID NO:48)	
711+1G>T	2	hex	probe/DM	CGCCCGGAGGAATTCATCAATTTGTTCCAGT (SEQ ID NO:49)	
711+1G>T	2	none	synthetic target	ACCTGGAACAAATATGATGCTCATTTGATTAATCTTTTATGAGCACTTGTATAATTTACAACTGGAAGGCC (SEQ ID NO:50)	927000

Figure 2 cont'd

[illegible]

	Hex	DWFM	Y-tct-X-agg-cgg-ttt-tcc-agg-lpa-gac-ctc-agg-cgg-hex (SEQ ID NO:75)
all	Hex	ER24/FAM	Y-tct-X-agg-cgg-ttt-tcc-agg-lpa-gac-tcc-tcc-gct-gt-hex (SEQ ID NO:76)
1, 2, 5	Hex	ER24/FAM	Y-tct-X-agg-cgg-ttt-tcc-agg-lpa-gac-tcc-tcc-gct-gt-hex (SEQ ID NO:76)
all	Hex	SNP46/Red	Y-tct-X-agg-cgg-ttt-tcc-agg-lpa-gac-tcc-tcc-gct-gt-hex (SEQ ID NO:77)
all	Hex	SNP46/Red	Y-tct-X-agg-cgg-ttt-tcc-agg-lpa-gac-tcc-tcc-gct-gt-hex (SEQ ID NO:77)

X = Quencher = 728

Y = Dye = FAM for 1055-48-08 and 1055-48-09 and Y = Z35 (or Redmond Red) for 1055-49-04

Mutation	3' blocking group	Oligo type (Arm)	Sequence (5'-3')	E_{300} $M^2 \text{ cm}^{-1}$
delF508	Pool	Invader	TGATGACGCTTGTTATCTATATTCATCATAGGAAACACA (SEQ ID NO:78)	441500
delF508	delF508	nont	CCGCGGAGCGAAAGATGATATTTCTTAATGGT (SEQ ID NO:79)	382200
delF508	delF508	Hex	AGCTGCTCGGACACAAATATTTCTTTAATGGTCA (SEQ ID NO:80)	418100
delF508	delF508	Hex	Y-act-X-aug-cgg-ttt-tgc-ggc-aga-aat-ttt-ttc-agg-hex (SEQ ID NO:81)	347150
delF508	delF508	DMFAM	Y-act-X-aug-cgg-ttt-tgc-ggc-aga-aat-ttt-ttc-agg-hex (SEQ ID NO:81)	390400
delF508	delF508	Wingtail/Red	Y-act-X-tcg-ggt-ttt-tgc-cgg-aga-aat-ttt-ttc-agg-hex (SEQ ID NO:82)	837500
delF508	delF508	WT Target	TGCGTCGCCACATTAAGAAATAATCATCTTTGGTTCTTCTA (SEQ ID NO:83)	837500
delF508	delF508	nont	ATGCTGCGCCACATTAAGAAATAATCATCTTTGGTTCTTCTA (SEQ ID NO:84)	828100

Mutation	Pool	3' blocking group	Oligo type (Arm)	Sequence (5'-3')
2184delA	2184delA	none	invader	CTTCCTTTTTCCCAAACTGTCACAGTGTGTTAAAGATTGTTTA (SEQ ID NO:85)
2184delA	2184delA	hex	MUT probe/DM	CGCCCGAGGTGTGTTCTGTGCCAGAG (SEQ ID NO:86)
2184delA	2184delA	hex	MUT probe/ES24	ACGACACGAGGTGTGTTCTGTGCCAGAG (SEQ ID NO:87)

X = Quencher = Z28

Y = Dye = FAM for 1055-48-08 and Y = Z35 (or Redmond Red) for 1144-16-02

711+1G>T	2	probe/ER24	ACGACCGGGAGAAATTCATCAAAATTGTTTCAGG (SEQ ID NO:88)
3849+10kb	2	probe/ER24	ACGACCGCGGAGTGTGAGTAAGACACCGCTGAAA (SEQ ID NO:89)